

Amendments to the Claims:

1 (Currently amended). A method for detecting an antibody, ~~in a sample~~, capable of binding to adenovirus in a sample, comprising:

- a) immobilizing a peptide comprising an amino acid sequence selected from the group consisting of SEQ ID NOs: [[1-7]] 9, 12 and [[9-15]] 15 onto a flowcell of a sensorchip in a biosensor;
- b) contacting the sample with the immobilized peptide; and
- c) detecting binding of the antibody to the immobilized peptide by detecting surface plasmon resonance in the biosensor.

2 (Currently amended). The method of ~~Claim claim~~ claim 1, wherein the adenovirus is adenovirus 5.

3 (Currently amended). The method of ~~Claim claim~~ claim 1, wherein said sample is human serum.

4-7 (Canceled).

8 (Currently amended). The method of ~~Claim claim~~ claim 1, wherein a plurality of peptides capable of being bound by an anti-adenovirus antibody comprising are directly immobilized, each on its own separate flowcell, and wherein at least one peptide of the plurality comprises an amino acid sequences sequence selected from the group consisting of SEQ ID NOs: [[1-7]] 9, 12 and [[9-15]] 15 ~~are directly immobilized, each on its own separate flowcell.~~

9-15 (Canceled).

16 (Currently amended). A method for detecting an antibody capable of binding to adenovirus in a sample, comprising:

- a) contacting the sample with a peptide comprising an amino acid sequence selected from the group consisting of SEQ ID NOs: [[1-7]] 9, 12 and [[9-15]] 15, or a combination thereof; and
- b) detecting binding between the peptide and the antibody.

17 (Canceled).

18 (Currently amended). The method of ~~Claim~~ claim 16, wherein the sample is contacted with a plurality of peptides, wherein at least one peptide of the plurality comprising comprises an amino acid sequence selected from the group consisting of SEQ ID NOs: [[1-7]] 9, 12 and [[9-15]] 15.

19-20 (Canceled).

21 (Currently amended). The method of claim 16, wherein the sample is human serum.

22 (Currently amended). The method of claim 16, wherein the adenovirus is adenovirus 5.

23 (Currently amended). A method for detecting an antibody, ~~in a sample~~, capable of binding to adenovirus in a sample, comprising:

- a) immobilizing a peptide comprising an amino acid sequence selected from the group consisting of SEQ ID Nos: [[1-7]] 9, 12 and [[9-15]] 15;
- b) contacting the peptide with the sample;
- c) labeling the antibody which binds to the peptide; and
- d) detecting the labeled antibody.

24 (Currently amended). The method of claim 23, wherein the labeled antibody in step (d) is detected by steps comprising:

- a) i) labeling said antibody with a biotin-labeled Protein A/G conjugate;
- b) ii) contacting the biotin-labeled Protein A/G conjugate with ~~horse-radish~~ horseradish peroxidase (HRP)-conjugated streptavidin;
- e) iii) contacting the ~~horse-radish peroxidase~~ HRP-conjugated streptavidin with 3,3',5,5'-tetramethyl benzidine (TMB); and
iv) ~~detecting fluorescence~~ producing a colored end product; and
v) measuring the intensity of the colored end product.

25 (Currently amended). The method of ~~Claim~~ claim 23, wherein the sample is contacted with a plurality of peptides, wherein at least one peptide of the plurality comprising comprises an amino acid sequence selected from the group consisting of SEQ ID NOs: [[1-7]] 9, 12 and [[9-15]] 15.

26 (Currently amended). The method of claim 23, wherein the sample is human serum.

27 (Currently amended). The method of claim 23, wherein the adenovirus is adenovirus 5.